

CONFIDENTIAL

SPINDLE MOUNTED TELEMETRY SYSTEM

ABSTRACT OF THE DISCLOSURE

The present invention relates to a telemetry assembly for a spindle. The telemetry assembly includes a wireless transmitter coupled to the spindle to rotate therewith and a receiving antenna wirelessly coupled to the transmitter. A guiding system having a central aperture and coupled to the wireless transmitter and the receiving antenna guides rotation of the wireless transmitter relative to the receiving antenna. If desired, the telemetry assembly can be used in a telemetry system including a hub adapter mountable to the spindle and a transducer mountable to the hub adapter. Furthermore, an angular positioning device and a wireless power coupling can be provided.